LOCKHEED AIRCRAFT CORP.		JEERING STUE	لبيا		.AC	-9 3	
DATE 11-30-60	AFFEC	cts:	WSPO	\mathbf{x}	PRO	JECT [a
NAME OF MAJOR COMPONENT	PART OR LOV	VEST SUBASSI	EMBLY	·- PA	RT NO. &	MODEL C	OR TYPE
O ₂ SYSTEM	<u> </u>						
TITLE OF PROPOSAL : OXYGEN S'	YSTEM IMPROVI	EMENTS					
NATURE OF PROPOSAL:		,					
	SEE I	PAGE 2	•	· 	•,		` `
		•			;·	•	
· ·	•						
•							· · · · · · · · · · · · · · · · · · ·
.					•		,
	•						
		<u> </u>					
oxygen system to reduce fir posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressur 2. Removing the cockpit lattion of indicated programmed in the cockpit to the cockpit	anual control the on-off re surges and low pressure ressures.	valves in feature of resulting gage to pr	place of the property adiabate property points of the property	of presessure tic hesossible	sent auto reducers ting. misinte	matic to rpre-	
posed improvements include: 1. Use of slow opening man opening connectors and eliminate high pressur 2. Removing the cockpit lation of indicated pressure.	anual control the on-off re surges and low pressure ressures. ed pressure resy within a	valves in feature of resulting gage to pr educers an box for pr	the property adiabate	of presence tic head obsible ved relationship	sent auto reducers ating. misinte	matic to rpre- es from e and d	irt.
posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressur 2. Removing the cockpit lattion of indicated properties the cockpit to the 0-beauting the modified the cockpit to the 0-beauting the high properties to the cockpit. ESTIMATED COST AND TIME	anual control the on-off re surges and low pressure ressures. ed pressure reay within a ressure gage,	valves in feature of resulting gage to pr educers an box for pr	the property adiabate	of presence tic head obsible ved relationship	sent auto reducers ating. misinte	matic to rpre- es from e and d	irt.
posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressur 2. Removing the cockpit lattion of indicated properties the cockpit to the 0-bear Except for the high properties to the cockpit.	anual control the on-off re surges and low pressure ressures. ed pressure r bay within a ressure gage,	valves in feature of resulting gage to pr educers an box for pr	the property adiabate	of presence tic head obsible ved relationship	sent auto reducers ating. misinte	matic to rpre- es from e and d	irt.
posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressur 2. Removing the cockpit I tation of indicated properties to the cockpit to the Q-best Except for the high properties to the cockpit. ESTIMATED COST AND TIME ADDITIONAL FUNDING REQUESTIMATED COST FOR KITS	anual control the on-off re surges and low pressure ressures. ed pressure r bay within a ressure gage, INVOLVED: UIRED:	valves in feature of resulting gage to pr educers an box for pr only low	the property of the property o	of presence tic head obsible ved relationship	sent auto reducers ating. misinte	matic to rpre- es from e and d	irt.
posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressur 2. Removing the cockpit I tation of indicated properties to the modified the cockpit to the Q-beauting the modified the cockpit to the Q-beauting the high properties to the cockpit. ESTIMATED COST AND TIME ADDITIONAL FUNDING REQUESTIMATED COST FOR KITS ADDITIONAL FUNDING REQUESTIMATED COST FOR KI	anual control the on-off re surges and low pressure ressures. ed pressure r bay within a ressure gage, INVOLVED: UIRED:	valves in feature of resulting gage to pr educers an box for pr only low	the property of the property o	of presence tic head obsible ved relationship	sent auto reducers ating. misinte	matic to rpre- es from e and d	irt.
posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressur 2. Removing the cockpit I tation of indicated properties to the modified the cockpit to the 0-beauting the might properties to the cockpit. ESTIMATED COST AND TIME ADDITIONAL FUNDING REQUESTIMATED COST FOR KITS	anual control the on-off re surges and low pressure ressures. ed pressure r bay within a ressure gage, INVOLVED: UIRED:	valves in feature of resulting gage to pr educers an box for pr only low	the property of the property o	of presence tic head obsible ved relationship	sent auto reducers ating. misinte	matic to rpre- es from e and d	irt.
posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressur 2. Removing the cockpit I tation of indicated properties to the modified the cockpit to the 0-beauting the modified the cockpit to the 0-beauting to the cockpit. ESTIMATED COST AND TIME ADDITIONAL FUNDING REQUESTIMATED COST FOR KITS ADDITIONAL FUNDING PERFORMATED COST FOR ADDITIONAL FUNDING PERFORM	anual control the on-off re surges and low pressure ressures. ed pressure r bay within a ressure gage, INYOLVED: UIRED: OR PARTS: S ATING INTER- EDURE CHANGE	valves in feature of resulting gage to preducers and box for pronly low	the programmer of the programm	of presence stic herosalble ved relation again again	sent auto reducers ating. misinte	matic to rpre- es from e and d	irt. ed
posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressur 2. Removing the cockpit I tation of indicated properties to the modified the cockpit to the Q-beauting the modified the cockpit to the Q-beauting the high properties to the cockpit. ESTIMATED COST AND TIME ADDITIONAL FUNDING REQUESTIMATED COST FOR KITS ADDITIONAL FUNDING REQUEST FOR FUNDING REQUE	anual control the on-off re surges and low pressure ressures. ed pressure r bay within a ressure gage, INYOLVED: UIRED: OR PARTS: S UIRED: N	valves in feature of resulting gage to preducers and box for pronly low	the programmer of the programm	of presence tic herosable ved relation again e oxyge	sent auto reducers ating. misinte lief valv ast greas en will b	matic to rpre- es from e and d e plumbe	AAINTE NANCE
posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressur 2. Removing the cockpit I tation of indicated properties to the modified the cockpit to the Q-beauting the modified the cockpit to the Q-beauting the high properties to the cockpit. ESTIMATED COST AND TIME ADDITIONAL FUNDING REQUITIONAL FUNDING REQUITIEMS AFFECTED BY PROPOSAL: SAFETY MISSION PERFORM OPER PROCESSIVENESS PROCESSIVENESS PROPOSED TO THE PROCESSIVENESS PROPOSED TO THE PROCESSIVENESS PROPOSED TO THE PROCESSIVENESS PROPOSED TO THE PROPOSED TO THE PROPOSED TO THE PROCESSIVENESS PROPOSED TO THE PROPOSED	anual control the on-off re surges and low pressure ressures. ed pressure r bay within a ressure gage, INYOLVED: UIRED: OR PARTS: S UIRED: N ATING CHANGE- ABILITY	valves in feature of resulting gage to preducers and box for pronly low	the programmer of the programm	of presence stic herosalble ved relation again again	sent auto reducers ating. misinte lief valv ast greas en will b	matic to rpre- es from e and d e plumbe	irt. ed
posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressur 2. Removing the cockpit I tation of indicated properties to the modified the cockpit to the 0-bear Except for the high properties to the cockpit. ESTIMATED COST AND TIME ADDITIONAL FUNDING REQUESTIMATED COST FOR KITS ADDITIONAL FUNDING FOR	anual control the on-off re surges and low pressure ressures. ed pressure r bay within a ressure gage, INYOLVED: UIRED: OR PARTS: S UIRED: N ATING CHANGE- ABILITY	valves in feature of resulting gage to preducers and box for pronly low ee Page 3 ONE (SP-19 WEIGHT OR TABLE BALANCE EG	the programmer of the programm	of presence essure tic herossible ved relation again a	sent auto reducers ating. misinte lief valv est greas mill b	matic to rpre- es from e and d e plumbe	MAINTE NANCE MANUA
posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressur 2. Removing the cockpit I tation of indicated properties to the modified the cockpit to the Q-beauting the modified the cockpit to the properties of the high properties and the cockpit. ESTIMATED COST AND TIME ADDITIONAL FUNDING REQUESTIMATED COST FOR KITS ADDITIONAL FUNDING REQUESTIMATED COST FOR KITS ADDITIONAL FUNDING REQUESTIVENESS PROPERTIES ANCE PROPERTIES TO ACCOMMENTATION OPERATOR OPERATOR ANCE PROPERTIES TO ACCOMMENTATION OPERATOR O	anual control the on-off re surges and low pressure ressures. ed pressure r bay within a ressure gage, INYOLVED: UIRED: OR PARTS: S UIRED: N ATING CHANGE- ABILITY	valves in feature of resulting gage to preducers and box for pronly low ee Page 3 ONE (SP-19 WEIGHT OR TABLE BALANCE EG	the programmer of the programm	of presence essure tic herossible ved relation again a	sent auto reducers ating. misinte lief valv ast greas en will b	matic to rpre- es from e and d e plumbe	MAINTE NANCE MANUA
posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressure. 2. Removing the cockpit I tation of indicated properties to the cockpit to the cockpit to the cockpit to the cockpit. Except for the high properties to the cockpit. ESTIMATED COST AND TIME ADDITIONAL FUNDING REQUESTIMATED COST FOR KITS ADDITIONAL FUNDING REQUESTIMATED BY PROPOSAL: SAFETY MISSION PERFORM OPER FROCE TIVENESS PROCESTIVENESS PROCESTIVENESS TO ACCOMMENT.	anual control in the on-off re surges and low pressure ressures. ed pressure r bay within a ressure gage, INVOLVED: UIRED: OR PARTS: S WIRED: N ATING CHANGE ABILITY APLISH CHANGE	valves in feature of resulting gage to preducers and box for pronly low ee Page 3 ONE (SP-19 WEIGHT OR WEIGHT & SECONDE IN FIELD AVAILA	the programmer of the programmer of the programmer of the programmer of the pressure of the pr	of presence tic herossible ved relation again e oxyge	sent auto reducers ating. misinte lief valv at greas en will b	enatic to rpre- es from e and de plumbo	MAINTE NANCE MANUA
posed improvements include: 1. Use of slow opening may opening connectors and eliminate high pressure. 2. Removing the cockpit I tation of indicated properties to the modified the cockpit to the Q-best Except for the high properties. ESTIMATED COST AND TIME ADDITIONAL FUNDING REQUESTIMATED COST FOR KITS ADDITIONAL FUNDING REQUESTIMATED BY PROPOSAL: SAFETY MISSION PERFORM OPER FROCE TIVENESS PROCESTIVENESS PROPOSAL: SAFETY MISSION PERFORM OPER PROCESTIVENESS PROCESTIVENESS PROCESTIVENESS TO ACCOMES SOURCE OF PARTS FOR KIT; LAC	anual control in the on-off re surges and low pressure ressures. ed pressure r bay within a ressure gage, INVOLVED: UIRED: OR PARTS: S WIRED: N ATING CHANGE ABILITY APLISH CHANGE	valves in feature of resulting gage to preducers and box for pronly low ee Page 3 ONE (SP-19 WEIGHT OR WEIGHT & SECONDE IN FIELD AVAILA	place of the property of the p	of presence tic herossible ved relation again e oxyge	sent auto reducers ating. misinte lief valv at greas en will b	enatic to rpre- es from e and de plumbo	MAINTE NANCE MANUA

NATURE OF PROPOSAL:

- 1. Modify all aircraft (except 388/721 and 394/954)* as follows:
 - a. Cockpit Remove all oxygen plumbing and system components
 except the high pressure gage and the indicator lights in the L. H.
 side instrument panel. Replace the present Oxygen Console with
 a new Console Assembly (Lo-pressure only) which includes the two
 existing pressure switches, and two new slowopening needle valves
 for controlling the "primary" and "secondary" low pressure systems.
 (See Figure 1.)
 - new improved relief valves, and reworked pressure reducers.
 - NOTE: Existing pressure reducers will be reworked by removing the "on-off" handle, adding metal diaphragms and metal-to-metal seats. (Valve bodies will be unpainted aluminum on future production). The new relief valves will have a flow rating compatible, with system capacity and will be vented overboard.
 - c. Oxygen Cylinders Remove the existing automatic opening cylinder valves and replace with slow opening needle valves and pressure gages on each cylinder.
 - d. Modify plumbing to connect relocated system elements. Special fittings will be utilized to reduce to a minimum, the number of high and low pressure line connections. Revised installation procedure will require application of anti-sabotage paint to certify the security of each plumbing connection.

Approved For Release 2002/11/15 : CIA-RDP89B00980R000300040002-6

LAC-93 Pg 3 of 3

NATURE OF PROPOSAL: (cont)

- 2. Prepare and issue a Service Bulletin
- 3. Fabricate appropriate aircraft provisioning kits.
- *4. This proposal also includes modification of two place aircraft (388/721 and 394/954). Description of changes involved will be outlined by revision to this Change Proposal and issuance of a separate Service Bulletin.

Estimated	Cost	For	Kits	or	Parts:	

STAT

: CIA-RDP89B00980R000300040002-6

Approved For Release 2002/1